

all the above digits  
(3mrks)

7 is the smallest  
(3mrks)

+ 9) like Science  
pupils do not like  
it. (2mrks)

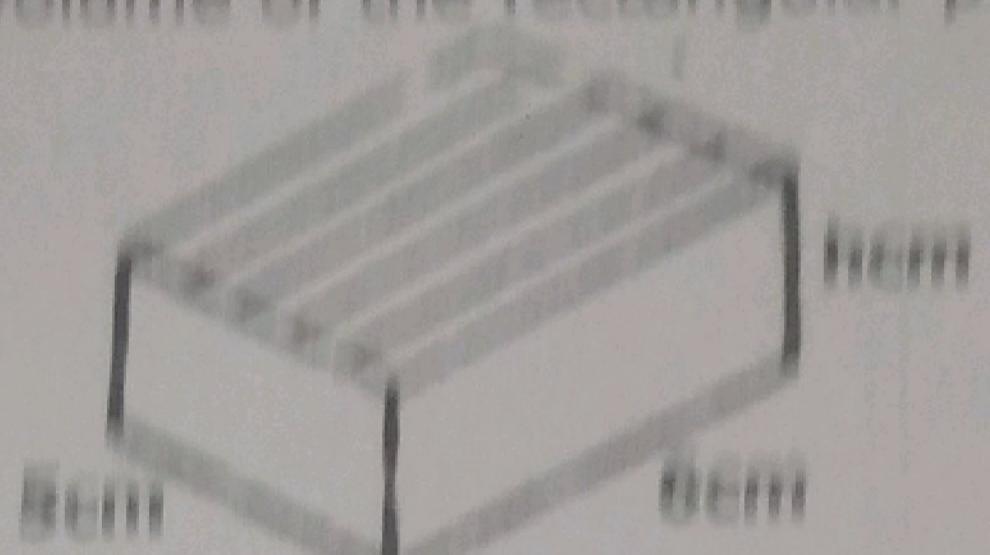
(2mrks)

(1mrk)

in metres  
(2mrks)

10) Find the distance covered by a bullet of 80cm/s from 0.156m to 11.156m.  
(3mrks)

14) The volume of the rectangular prism below is 120cm<sup>3</sup>.



a) How many surfaces has the prism  
above? (1mrk)

(b) Find the height of the prism  
(2mrks)

c) Calculate the space occupied by the shaded face.

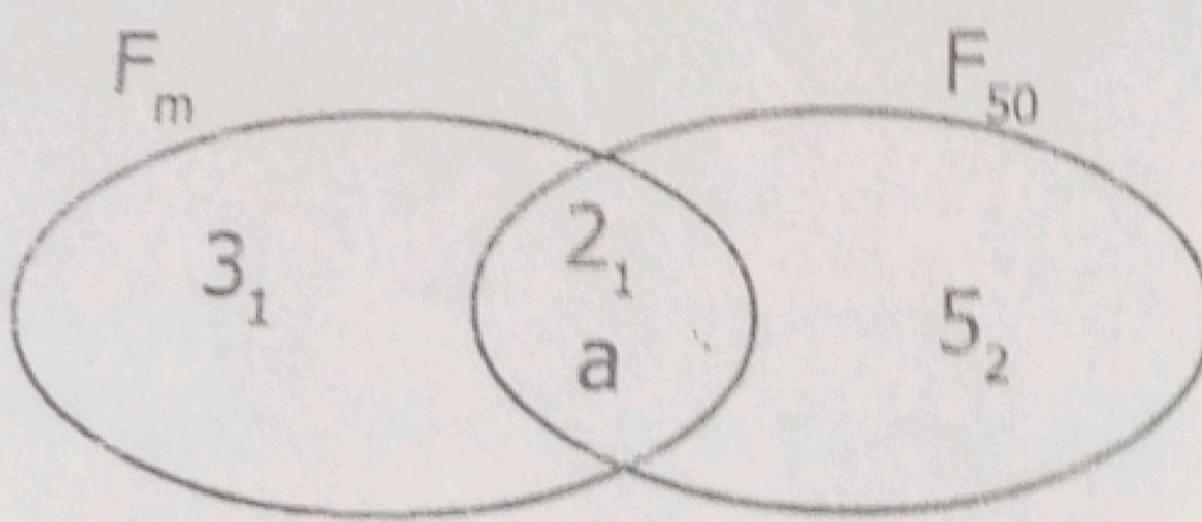
25. Amos, Andrew and Allan shared certain amount of money in the ratio  
respectively such that Allan got shs. 84,000 more than Amos.  
Calculate the total amount of money they shared.

b) Express Andrew's share as a percentage.

26. Umutesi went shopping and bought the following items.  
1½ kg of beans at shs. 4,200 per kg.  
750g of sugar at shs. 4,800 a kilo.  
2 bars of soap at sh. 13,000 and 2 half kilogram packets of salt each at sh.600.  
Calculate her total expenditure. (4mrks)

- a) If she was given change of sh.900, how much did she have at first? (1mrk)

27. The Venn diagram below shows prime factorization of two numbers m and 50.  
Use it to answer questions that follow.



- a) Find the value of a. (2mrks)  
(b) Find the value of m. (1mrk)

- c) Work out the LCM of m and 50. (2mrks)

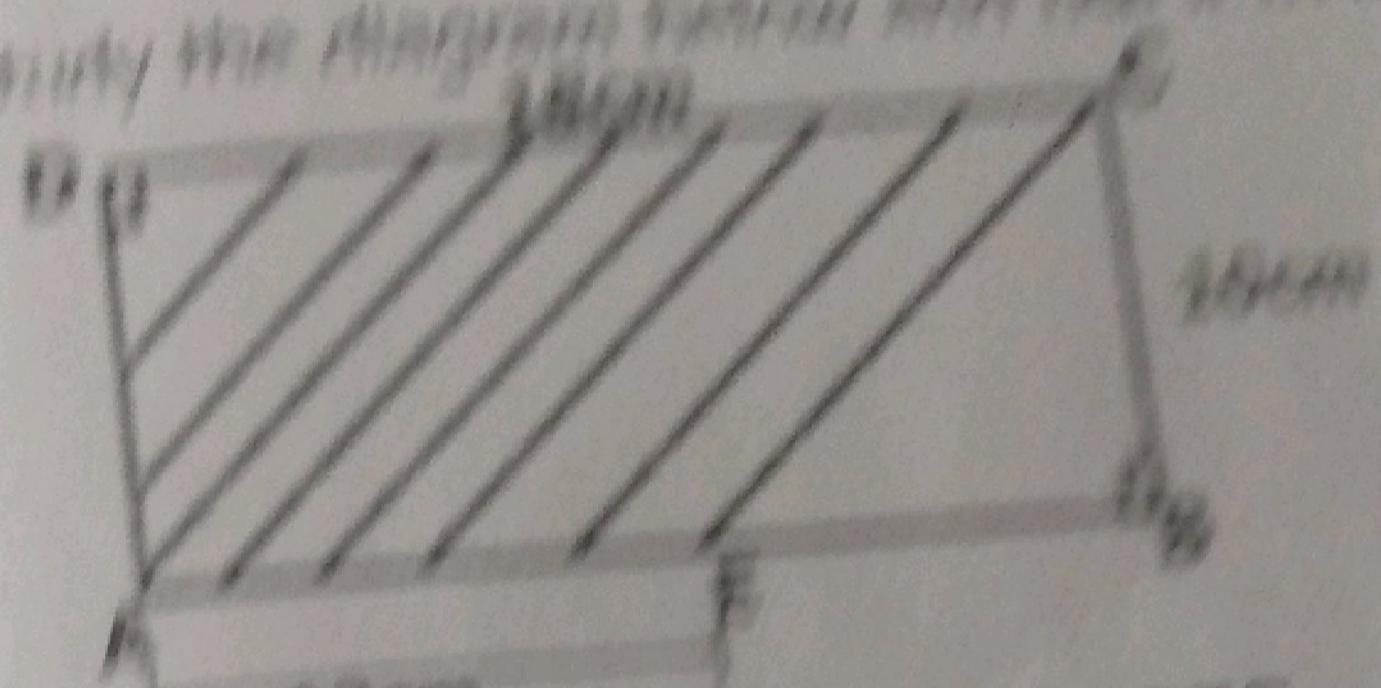
28. a) Solve for  $m^2$   
 $6(m - 2) + 3(m + 1) = 0$  (2mrks)

- b) Add 8 to a half of a number the answer is 14. Find the number. (3mrks)

29. Jasper, Joseph and Joan shared some money. Jasper got  $\frac{2}{15}$ , Joseph got  $\frac{7}{15}$  and Joan got the rest.  
a) Find the fraction Joan got. (2mrks)

30) If they shared 10kg of sugar, how much did each get?

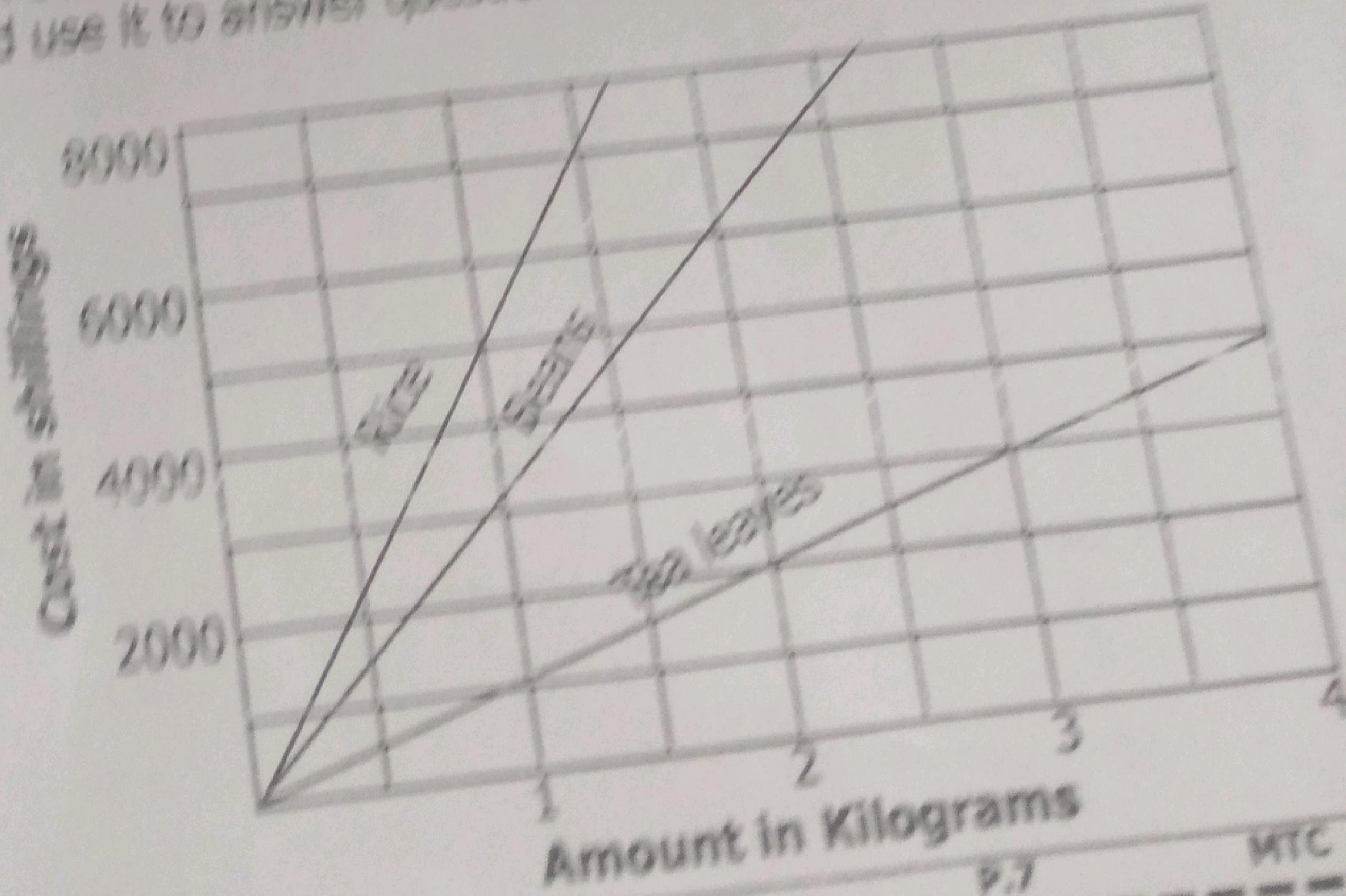
Study the diagram below and use it to answer questions that follow.



a) Calculate the area of triangle ABC.

b) Calculate the area of the shaded region.

31) The graph below shows the cost of rice, beans and tea leaves in kilogram. Study and use it to answer questions that follow.



26.

Umutesi bought  
1½ kg of rice  
per kg.  
750g of beans  
a kilo.  
2 bars of soap  
and 2 packets of  
salt each.  
Calculate

a)

b)

27.

Find out the LCM of m and 50.  
(2mrks)

32.

- a) What is the cost of a kilogram of rice? (1mrk)
- b) Find the total cost of 1½ kg of beans and 2 kilograms of tea leaves. (3mrks)
- c) Find the total cost of 1kg of each item. (1mrk)
- a) Using a ruler, a pencil and a pair of compasses only, construct a quadrilateral ABCD in a circle of radius 4cm. (3mrks)
- b) Calculate the perimeter of the figure above. (2mrks)

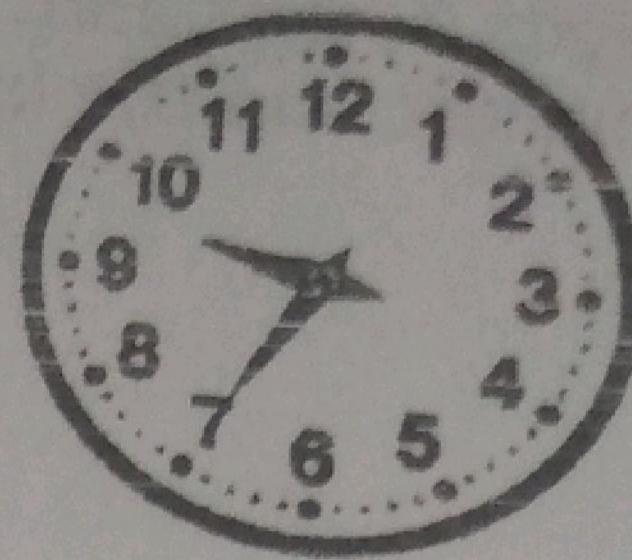
**SECTION B: (60 MARKS)**

21. a) Given the digits 4, 0, 7 and 2.  
Form the smallest and the largest 4-digit numerals using all the above digits. (2mrks)
- b) Find the difference between the value of 2 and the value of 7 in the smallest number formed in (a) above. (3mrks)
22. In a class,  $(2p - 2)$  pupils like English (E) but not Science,  $(P + 9)$  like Science (S) but not English, P like both English and Science while 3 pupils do not like any of the two subjects.  
Use the above information to complete the Venn diagram below. (2mrks)
- a)
- 
- b) Given that 31 pupils like only one subject, find the value of p. (2mrks)
- c) How many pupils are in that class? (1mrk)
23. a) A driver covers a distance of 270km in 3 hours. Find his speed in metres per second. (2mrks)

below.

11. How many five hundred shilling coins are in a ten thousand shilling note?

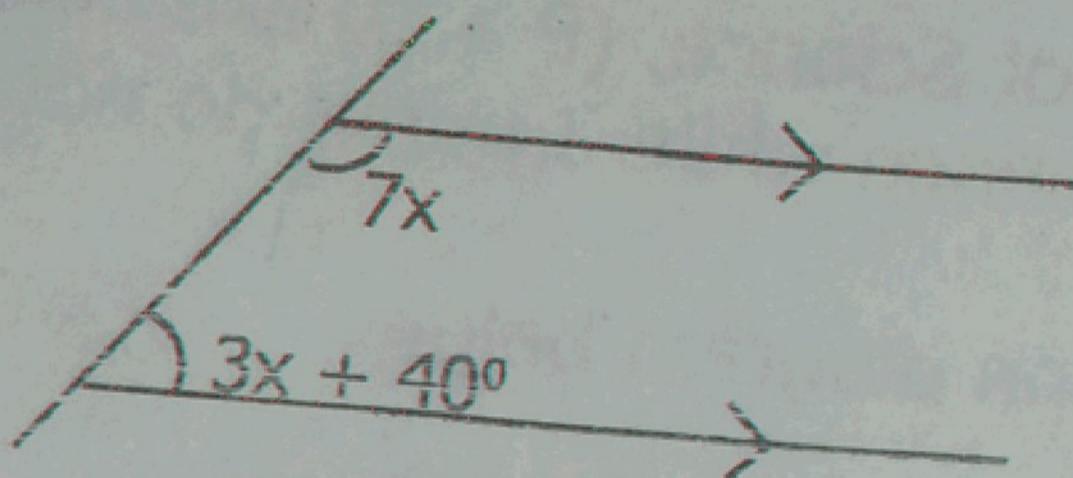
16. Write the evening time shown on the clock face below.



12. WORK out:  $3 \times 2 = \underline{\hspace{2cm}}$  (Mod 5)

17. Find the sum of the next two numbers in the sequence below.  
4, 4, 6, 10, 16,

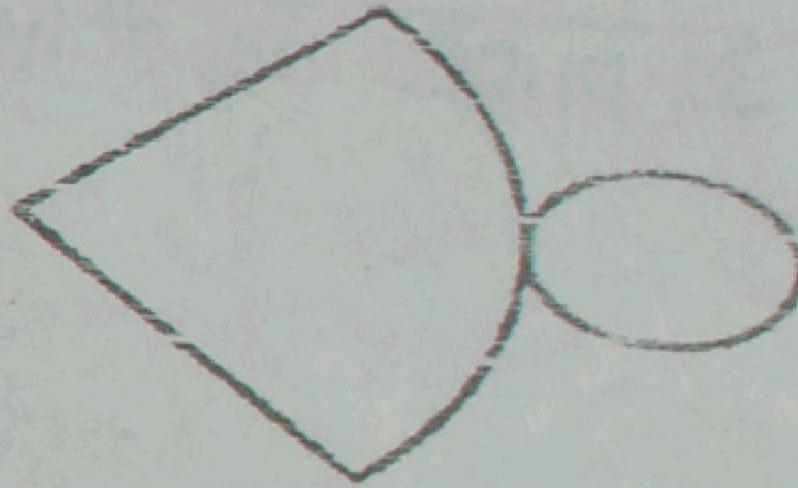
13. Find the value of  $x$  in the figure below.



18. Williams scored the following points in the USA open finals 2, 7, 4, 8, 6 and 3. Calculate her median score.

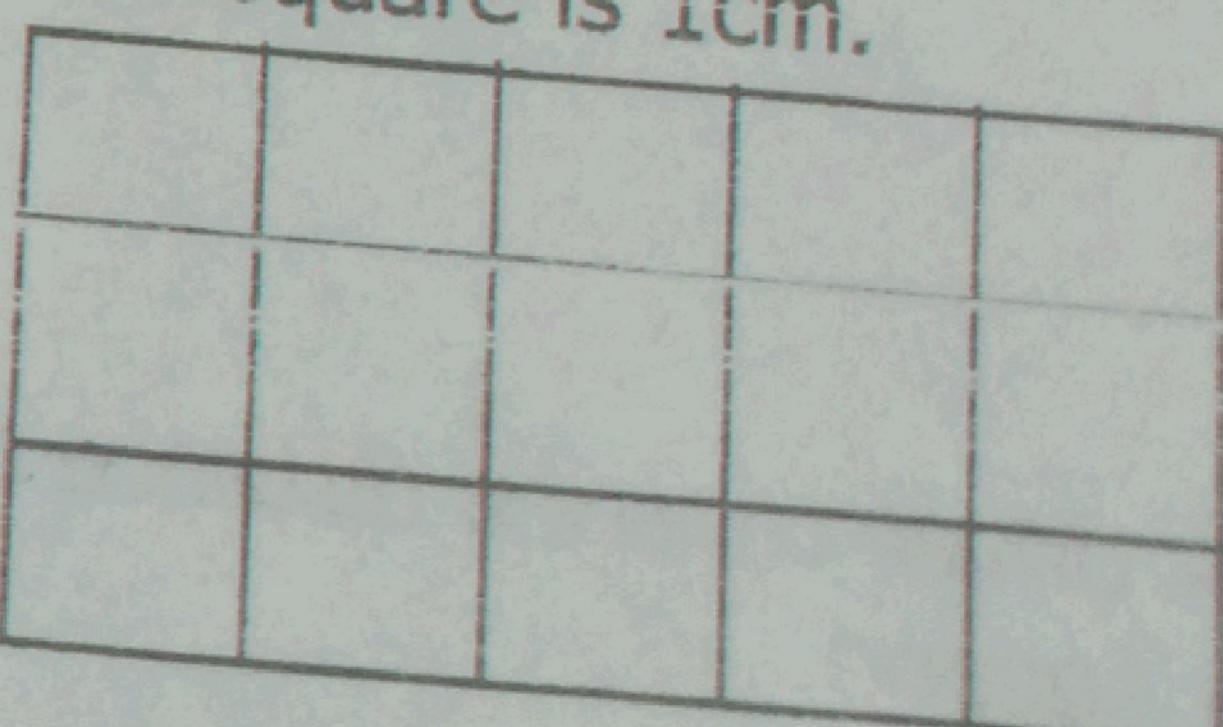
14. Write 6073 in expanded form using place values.

19. Name the solid figure whose net is given below.

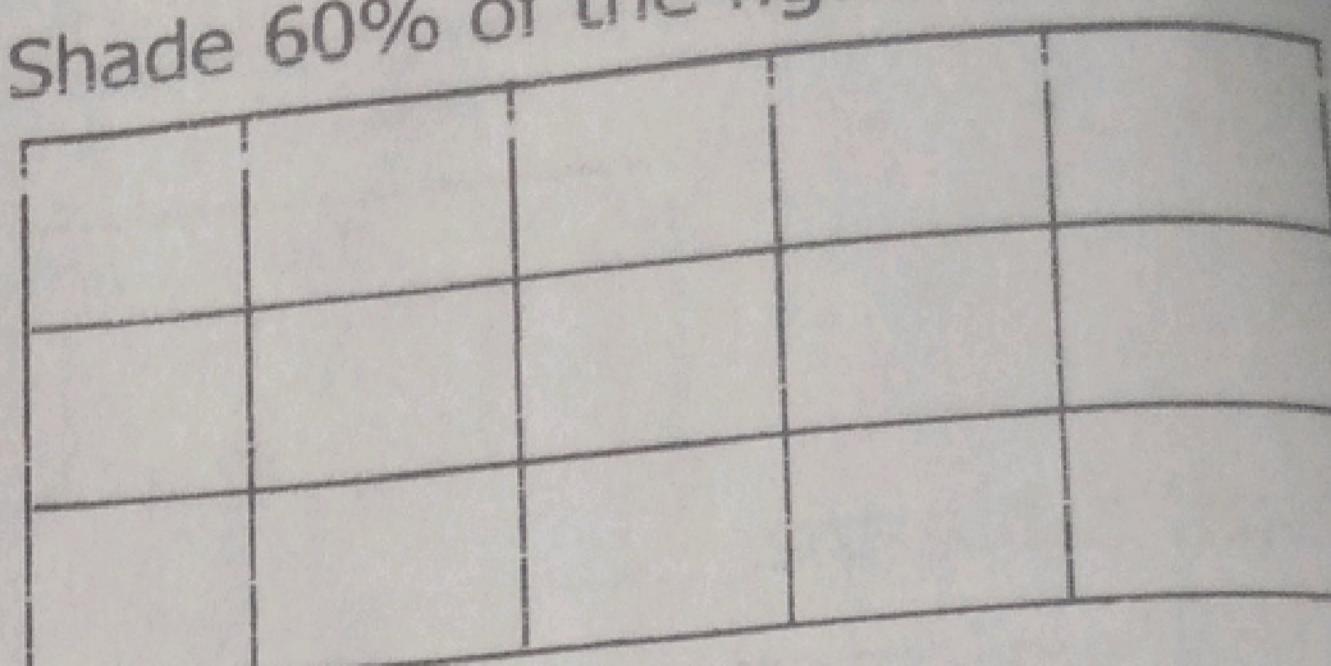
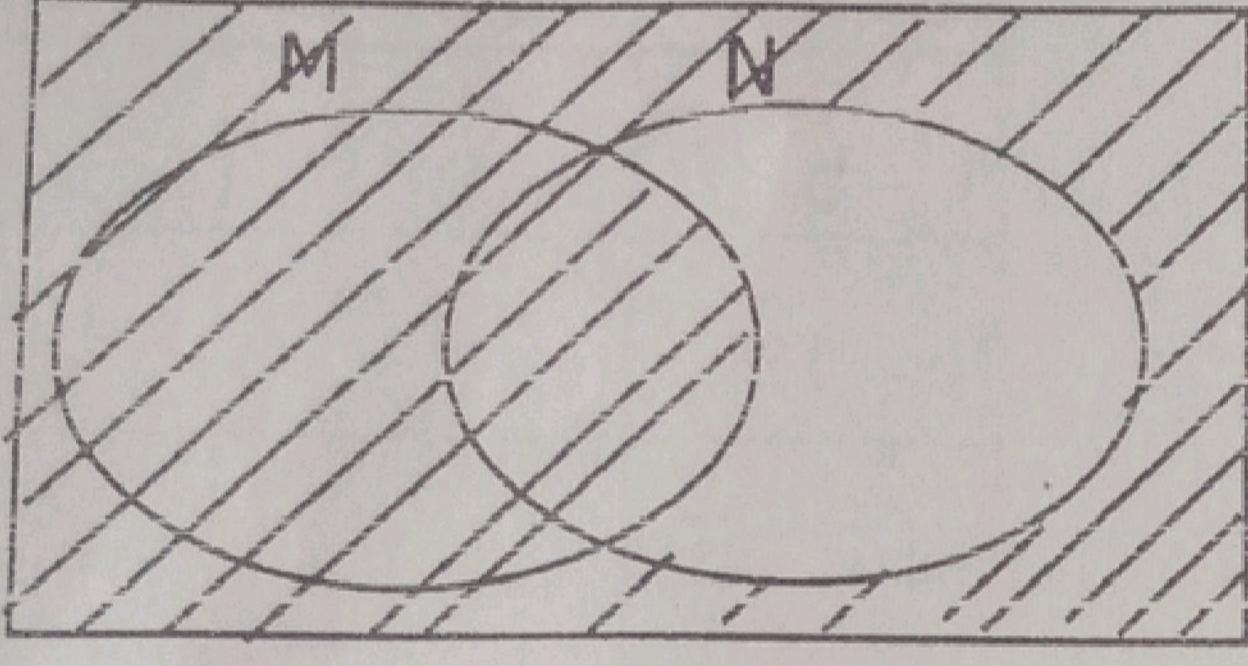


15. Solve for  $m$ :  $4 - m = 7$

20. Find the perimeter of the figure below given that one side of the small square is 1cm.



**SECTION A: (40 MARKS)**

- |    |                                                                                                                                                 |     |                                                                                                                        |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------------------------------------------|
| 1. | Add: $176 + 13$                                                                                                                                 | 6.  | Work out: $\begin{array}{r} 2 & 1 & 3_{\text{five}} \\ - 1 & 2 & 3_{\text{five}} \end{array}$                          |
| 2. | Write 2025 in words.                                                                                                                            | 7.  | Shade 60% of the figure below.<br> |
| 3. | Describe the unshaded region in the Venn diagram below.<br> | 8.  | If $PF_m = 3^2 \times 5^1$ , find the value of m.                                                                      |
| 4. | Round off 1591 to the nearest hundreds.                                                                                                         | 9.  | Find the square of 9m.                                                                                                 |
| 5. | Given set $B = \{a, b, c\}$ list down all the subsets of set B.                                                                                 | 10. | Express 0.08 as a common fraction in its lowest form.                                                                  |

# KAMPALA REAL EDUCATION SERVICES

## MOCK EXAMINATION

### MATHEMATICS

TIME ALLOWED: 2 HOURS 30 MINUTES

Index No.	Personal No

Pupil's Name: .....

Pupil's signature: .....

Read the following instructions carefully

1. Do not write your school or district name on the paper.
2. This paper is made up of section A and B  
Section A has 20 questions and  
Section B has 12 questions.
3. Answer all questions. All answers to both section A and B must be written in the space provided.
4. All working must be written using blue or black ball-point pen or ink. Any work written in pencil other than graphs and diagrams will not be marked
5. No calculators are allowed in the examination room
6. Unnecessary changes in work and handwriting that cannot be read easily may lead to loss of marks
7. Do not fill anything in the table indicated: "For Examiners' use only" and boxes inside the question paper.

FOR EXAMINER'S USE ONLY		
QN NO.	MARKS	EXRS NO.
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23-24		
25-26		
27-28		
29-30		
31-32		
<b>TOTAL</b>		